

What I claim is:

1. An improved non-surface activated, non-tacky gel composition comprising: a gel formed from (I) 100 parts by weight of one or more linear, multi-arm, radial, multiblock and random copolymers having one or more glassy blocks and one or more elastomeric blocks, wherein said elastomeric blocks comprises one or more substantially crystalline polyethylene components, said copolymers are characterized by sufficient crystallinity as to exhibit a melting endotherm of at least about 25°C as determined by DSC curve; said glassy components selected from polystyrene, poly(alpha-methylstyrene), poly(o-methylstyrene), poly(m-methylstyrene), and poly(p-methylstyrene), wherein the amounts of glassy to elastomeric components of said copolymers forming said gels having a ratio (a) of at least 37:63 with the proviso that in the event said ratio (a) being less than 37:63, a selective amounts of (II) one or more glassy homopolymers selected from polystyrene, poly(alpha-methylstyrene), poly(o-methylstyrene), poly(m-methylstyrene), poly(p-methylstyrene) and poly(dimethylphenylene oxide) are added to form a mixture of said copolymers and said glassy homopolymers, wherein said amounts of glassy components of said copolymers and said glassy homopolymers to said non-glassy components of said copolymers forming said gels having a ratio (b) of at least 37:63, wherein said glassy homopolymers having typically an average molecular weight ranging from about 2,500 to about 90,000; and (III) selected amounts of one or more compatible plasticizers sufficient to achieve gel rigidities of from less than about 2 gram Bloom to about 2,000 gram Bloom, wherein said plasticizers having a viscosity cSt @ 40°C of at least not greater than about 30; said gel being formed with or without a major or minor amounts of (III) one or more selected copolymers or polymers; and wherein said gel having a tackiness of less than about 3 gram Tack.

2. An improved non-surface activated, non-tacky gel according to claim 1, wherein said glassy homopolymers is a glassy associated phase resins.

3. An improved non-surface activated, non-tacky gel according to claim 1, wherein said crystalline components having a selected crystallinity capable of exhibiting in differential scanning calorimeter (DSC) a melting endotherm of about 25°C, 21°C, 22°C, 23°C, 24°C, 25°C, 26°C, 27°C, 28°C, 29°C, 30°C, 31°C, 32°C, 33°C, 34°C, 35°C, 36°C, 37°C, 38°C, 39°C, 40°C, 41°C, 42°C, 43°C, 44°C, 45°C, 46°C, 47°C, 48°C, 49°C, 50°C, 51°C, 52°C, 53°C, 54°C, 55°C, 56°C, 57°C, 58°C, 59°C, 60°C or higher.

4. An improved non-surface activated, non-tacky gel according to claim 1, wherein said copolymer of said gel is formed in combination with or without a selected amount of one or more polymer or copolymer of poly(styrene-butadiene-styrene), poly(styrene-butadiene), poly(styrene-isoprene-styrene), poly(styrene-isoprene), poly(styrene-ethylene-propylene), poly(styrene-ethylene-propylene-styrene), poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-butylene), poly(styrene-ethylene-propylene)n, poly(styrene-ethylene-butylene)n, maleated poly(styrene-ethylene-propylene-styrene), maleated poly(styrene-ethylene-butylene-styrene), maleated poly(styrene-ethylene-butylene), maleated poly(styrene-ethylene-propylene)n, maleated poly(styrene-ethylene-butylene)n, polystyrene, polybutylene,

poly(ethylene-propylene), poly(ethylene-butylene), polypropylene, polyethylene, polyethyleneoxide, poly(dimethylphenylene oxide), copolymers of trifluoromethyl-4,5-difluoro-1,3-dioxole and tetrafluoroethylene, tetrafluoroethylene, polycarbonate, ethylene vinyl alcohol copolymer, polyamide or polydimethylsiloxane; wherein said copolymer is a linear, branched, radial, or a multiarm copolymer.

5. A composite comprising a gel of claim 1, where said gel is denoted by G being physically interlocked with a selected material M forming the combination $G_n M_n$, $G_n M_n G_n$, $M_n G_n M_n$, $M_n G_n G_n M_n$, $G_n M_n M_n G_n$, $G_n M_n G_n M_n G_n$, $M_n M_n M_n G_n$, $M_n M_n M_n G_n M_n M_n M_n$, $G_n G_n$, $G_n G_n G_n$, $M_n G_n G_n$, $M_n M_n M_n G_n M_n$, $M_n G_n G_n M_n$, $G_n M_n G_n G_n$, $G_n M_n M_n G_n$, $G_n M_n M_n G_n$, $G_n G_n M_n M_n$, $G_n G_n M_n G_n M_n$, $G_n M_n G_n G_n$, $G_n M_n G_n M_n M_n$, $M_n G_n M_n G_n M_n G_n$, or a permutation of one or more of said G_n with M_n ; wherein when n is a subscript of M, n is the same or different selected from the group consisting of paper, foam, plastic, natural fibers, fabric, metal, metal foil, concrete, wood, glass, glass fibers, ceramics, synthetic resin, synthetic fibers or refractory materials; and wherein when n is a subscript of G, n denotes the same or a different gel rigidity.

6. A prosthetic device comprising a lower extremity socket insert for below knee or above knee with or without a cuff suspension formed from a gel of claim 1.

7. A prosthetic device comprising a lower extremity socket insert for below knee or above knee with or without a cuff suspension formed from a gel composite claim 4, wherein M is a fabric.

8. A face mask comprising a composite and a non-tacky gel in contact with the face, said gel being a gel of claim 1.

9. A dental floss comprising a gel of claim 1, wherein said floss is formed into a strand, thread, tape, or yarn suitable for use as a dental floss.

10. An improved non-surface activated, non-tacky gel comprising a gel formed from

(i) 100 parts by weight of one or more copolymers having a selected amount of one or more elastomeric segments and a selected amount of one or more glassy segments, said elastomeric segments having a selected amount of one or more crystalline poly(ethylene) components and said glassy segments being a poly(styrene);

(ii) from about 250 to about 1,600 parts of a plasticizer sufficient to achieve a gel rigidity of from less than about 2 gram Bloom to about 1,800 gram Bloom;

(iii) said gel being optical clear and non-tacky to the touch, wherein said non-tacky property being achieved by a combination of said selected amount of crystalline poly(ethylene) components, said selected amount of said poly(styrene) components, and a one or more plasticizers having a Viscosity cSt @ 40°C of less than 30, wherein said elastomeric segments and said poly(styrene) segments having a ratio of at least 37:63 and said tack of said gel being substantially less than amorphous gels of poly(styrene-ethylene-butylene-styrene) or poly(styrene-ethylene-propylene-styrene) of substantially same rigidities.